

L1 ANSWER 1 OF 1 WPIX (C) 2002 THOMSON DERWENT

AN 1998-189347 [17] WPIX

DNN N1998-150655 DNC C1998-060308

TI Thermosetting resin compositions useful for coating roofs, girder covers, benches etc. - consisting of film-formable polyol resin, block isocyanato curative and organosilica sol.

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A thermosetting resin composition comprises (A) a film-formable polyol resin with a hydroxyl value of 5-300 and a number average mol. wt. of 500-20,000, (B) a block isocyanato curative and/or an amino resin reactive with resin (A) and (C) an organosilica sol with a hydrophobicity as hexane tolerance value of at least 15.0 ml as essential components. Also claimed are: (1) thermosetting coatings using the compositions, coat-forming method using the coatings and articles with the coats obtained by the method; (2) thermosetting resin compositions consisting of a lactone-modified polyol resin or a polyester polyol resin with a hydroxyl value of 10-100 and a solubility parameter of 9.5-12 as component (A), 0.5-10 wt.% per (A) of an alkyl-etherified amino resin as component (D), 10-50wt.% per (A) of a lactam-, oxime- or diketone-blocked polyisocyanato compound as component (E), 30- 60wt.% per (A) plus (D) plus (E) of silica sol using methyl isobutyl ketone as dispersion medium or silane coupling agent- modified silica sol as component (C) and 0.1-2wt.% per (A) plus (B) plus (C) of an aromatic sulphonic acid or an amine salt of the aromatic sulphonic acid and/or a Sn catalyst as catalyst accelerating reaction between (A) and (D) and/or (E).

USE - The compositions are useful as coatings for roofs, walls, road and tunnel interior materials, fences, poles, benches, guardrails, girder covers for express ways, cars and airplanes.

ADVANTAGE - The thermosetting resin compositions have excellent stain and chemical (acid and alkali) resistance and hardness and coatings using the compositions have excellent storage stability.

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